



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 1136
Activity No.: PER20030002

Mr. Steve A. Rathweg
Plant Manager
Shell Chemical LP
P. O. Box 500
Geismar, Louisiana 70734

RE: Part 70 Operating Permit Modification and Renewal, EOEG-3 Unit, Geismar Plant, Shell Chemical LP, Geismar, Ascension Parish, Louisiana

Dear Mr. Rathweg:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

Permit No.: 2185-V2

Sincerely,

Chuck Carr Brown, Ph. D.
Assistant Secretary

SGQ
cc: EPA Region VI

ENVIRONMENTAL SERVICES
PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA**

I. Background

Shell Chemical LP owns and operates a chemical manufacturing complex located in Geismar, Louisiana. EOEG-3 facility is currently operating under a Part 70 Operating Permit No. 2185-V1 dated January 31, 2003.

II. Origin

A permit application and Emission Inventory Questionnaire (EIQ) were submitted by Shell Chemical LP on January 8, 2003 for a renewal of the Part 70 Permit No. 2185-V1. An updated application and EIQ were submitted on December 22, 2005 requesting a permit modification and renewal. Additional information dated February 20, 2003; May 31, 2006; and June 2, 2006 was also received.

III. Description

Process unit EOEG-3 is an existing unit that consists of two processes EO-3 and EG-3, which produce ethylene oxide (EO) and ethylene glycols (EG), respectively. The EO-3 process produces EO from the catalytic reaction of ethylene and oxygen. EO is recovered by water absorption and steam stripping. The resulting aqueous EO is dehydrated and upgraded by fractionation to high purity EO (HPEO). EO and HPEO will either be used by other processes on site or shipped out in tank cars. However, some of the aqueous EO will be routed directly to EG-3 where the glycols are produced. In EG-3 ethylene glycol and smaller amounts of diethylene glycol (DEG) and triethylene glycol (TEG) are produced by hydrolyzing the aqueous EO. Aqueous EG reactor product is dehydrated and the resulting water is recycled to the reactor. The dehydrated mixed glycols stream is routed to the glycol's purification section where the individual glycols are separated, purified, and routed to storage tanks. The emission sources for this process are process vents, storage tanks, fugitive components, cooling tower, loading/unloading operations, miscellaneous sources, Insignificant Activities and General Condition XVII Activities.

The facility is proposing to incorporate recent approved permit actions and other changes based on current operating conditions:

1. Incorporate two Small Source Exemption dated September 11, 2004, for Glycol Rerun to Glycol Bleed Flasher Project which allowed the installation of piping and associated fugitive components;
2. Change the catalyst in the EOEG-3 Unit;
3. Update fugitive emissions from process equipment fugitive components based on previously approved permitting actions;
4. Update VOC speciated emissions based on the recent LDEQ guidance;

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5. Incorporate allyl chloride emissions for several sources which were inadvertently omitted in the last permit application; and
6. Update General Condition XVII Activities and Insignificant Activities.

In addition, the facility is proposing to modify the permit to include the High-purity Ethylene Oxide One (HPEO-1) Project. The equipment within the EOEG-1 Unit is nearing the end of its life and will have to be shutdown in 2007. As part of the HPEO-1 Project the facility will utilize the existing EO-1 purification column and associated equipment but the other redundant equipment will be dismantled. The HPEO-1 Project will include the following:

1. Modify the EG-3 EG Reactor Feed System – The purification process bleed streams (EO with formaldehyde (FAH), EO with acetaldehyde (ACH) and water will be routed to the EG reactor. To achieve this goal a vessel will be installed to degas the line, install a new EG Reactor feed pump, install a new Purge Cooler, and a new static mixture;
2. Install a new EG Bleeds Cooler and associated piping in the EG-3 Unit;
3. Install new piping and fugitive components to transfer EO-3 bleeds to EG-2; and
4. The upstream and downstream units affected, without modifications except for fugitive components, by this project are Utilities for increased steam supply and wastewater; Logistics Unit for increased throughput, storage, and loading capacity, M-Unit and PDO-1 Unit for increased HPEO supply.

Shell Chemical's EOEG-3 Unit located at Geismar Plant is in a serious nonattainment area for ozone. Any modification to the facility that increases NOx and VOC emissions must be reviewed based on the New Source Review (NSR) requirements.

Estimated emissions increase based on actual to potential related to the HPEO-1 Project irrespective of any decreases in tons per year are as follows:

<u>Pollutant</u>	<u>Project Emissions</u> <u>Increase</u>	<u>PSD/NNSR Significance</u> <u>Threshold</u>	<u>Netting</u> <u>Analysis</u>
PM ₁₀	0.75	15	NO
SO ₂	0.01	40	NO
NO _x	13.20	40/25	NO
CO	11.22	100	NO
VOC	18.26	40/25	NO

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The increase in emissions due to the HPEO-1 Project do not exceed the Prevention of Significant Deterioration (PSD) significance threshold, therefore, this project does not require netting or PSD review. Similarly, the increase in emissions due to this project do not exceed the Nonattainment New Source Review (NNSR) significance threshold, therefore, NNSR is not required.

Permitted emissions from EOEG-3 Unit in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	0.02	0.02	+ 0.00
SO ₂	0.02	0.02	+ 0.00
NO _x	0.29	0.29	+ 0.00
CO	0.06	0.06	+ 0.00
VOC	36.73	45.57	+ 8.84

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Acetaldehyde	2.94	2.97	+ 0.03
Allyl chloride *	0.00	0.01	+ 0.01
Ethyl chloride	0.45	0.00	- 0.45
Ethylene glycol	4.40	4.52	+ 0.12
Ethylene oxide *	4.27	6.56	+ 2.29
Formaldehyde	0.81	0.87	+ 0.06
Methanol	0.41	0.34	- 0.07
Total	13.28	15.27	+ 1.99

Other VOC (TPY): 30.30

* Allyl chloride is included in the speciation due to updated speciation and calculation methodology. Allyl chloride and ethylene oxide emissions increase due to the project is greater than its minimum emission rate (MER).

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and NESHAP. New Source Review is not required.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III Chapter 51. Acetaldehyde, allyl chloride, ethylene oxide, and formaldehyde emissions are above the minimum emission rates (MER) under Louisiana Air Toxic Regulations. Process vents containing acetaldehyde, ethylene oxide, and formaldehyde shall comply with maximum achievable control technology (MACT) requirements by maintaining the total resource effectiveness (TRE) index values above 4.0 (Group 2 vents only) in accordance with NESHAP (HON) Subpart G - National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

Fugitive emissions from equipment containing organic hazardous air pollutants are monitored under the leak detection and repair (LDAR) requirements of NESHAP (HON) Subpart H – National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

The impact of pollutants on air quality is below toxic ambient air standards (AAS) and national ambient air quality standards (NAAQS). The air toxic compliance plan was approved by LDEQ on August 31, 1995.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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VI. Public Notice

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and The ***** Geismar, Louisiana, on ****, 2006. Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on ****, 2006. The proposed permit was sent to EPA via e-mail on ****, 2006.

VII. Effects on Ambient Air

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
NA			

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VIII. General Condition XVII Activities

Activity	Frequency	VOC	PM	SO2	NOx	CO
		TPY	TPY	TPY	TPY	TPY
EOEG-3 Shutdown Purges	2 purges/yr	0.04	-			
EOEG-3 Daily Maintenance	6 purges/equipment/yr	3.00	-			
EOEG-3 Tanks Cleaning	Once/tank/yr	1.38	-			
EOEG-3 Reactor Purges	5 purges/yr	0.70	-			
EOEG-3 Sampling	20/day	0.01	-			
Large Fuel Fired Equipment	500 hp * 600 hrs	0.38	0.33	0.31	4.65	1.00
Small Fuel Fired Equipment	50 hp *6000 hrs	0.38	0.33	0.31	4.65	1.00

IX. Insignificant Activities

ID No.:	Description	Citation
-	Lab Vents	LAC 33:III.501.B.5.A.6
-	PAD Sump Pump Diesel Tank (508 gal)	LAC 33:III.501.B.5.A.3

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
GRF31	EOEG-3 Facility	1	1	1	1								1	1	1	1	1	1	1
EQT191	04-94, EG Vacuum System Aftercondenser E-EG3252									2			2						
EQT192	11-92, Equipment Drains Vessels V-EG3822						2											1	
EQT193	12-92, EO-3 CO2 Vent V-EO3221									2			2						
EQT194	13-92, EOEG-3 Chemical Sewer Sump												2					1	
EQT195	14-92, Process Area Drainage Impound Tank T-EO3841												2					1	
EQT196	15-92, Process Area Drainage Impound Tank T-EO3842												2					1	
EQT197	16-92, Carbonate Tank T-EO3920							2										1	
EQT198	18-92, Contaminated Steam Vent PV-12348												2				2	1	
EQT199	19A-92, EG-3 Vacuum System Hotwell V-EG3251												2				2	1	
EQT200	20-92, Quenched Bleed Flasher Accumulator V-EG3321												2				2	1	
EQT201	22-92, EG Rundown Tank T-EG3924												2					1	
EQT202	23-92, EG Rundown Tank T-EG3925												2					1	
EQT203	24-92, DEG Rundown Tank T-EG3926												2					1	

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ID No.:	Description	LAC 33.III.Chapter																
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56
EQT204	25-92, EG Rundown Tank T-EG3927						2										1	
EQT205	26-92, TEG Rundown Tank T-EG3928						2										1	
EQT206	27-92, TEG Rundown Tank T-EG3929						2										1	
EQT207	29-92, Glycol Rerun Tank T-EG3931						2										1	
EQT208	30A-92, PAD Sump Pump Driver						1	1	1					2				
EQT209	31-92, Coolant Storage Tank T-EO3910						2										1	
EQT210	801-05, EO-3 Absorber Vent C-EO3XXX								2				2				1	
EQT211	CWHE321, Cooling Water Heat Exch.																	
EQT212	CWHE322, Cooling Water Heat Exch.																	
EQT213	CWHE323, Cooling Water Heat Exch.																	
EQT214	CWHE324, Cooling Water Heat Exch.																	
EQT215	CWHE325, Cooling Water Heat Exch.																	
EQT216	CWHE326, Cooling Water Heat Exch.																	
EQT217	CWHE327, Cooling Water Heat Exch.																	
EQT218	CWHE328, Cooling Water Heat Exch.																	
EQT219	CWHE329, Cooling Water Heat Exch.																	
EQT220	CWHE330, Cooling Water Heat Exch.																	
EQT221	CWHE331, Cooling Water Heat Exch.																	

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:II.Chapter																	
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53	56	59
EQT22	CWHE332, Cooling Water Heat Exch.																		
EQT23	CWHE333, Cooling Water Heat Exch.																		
EQT24	CWHE334, Cooling Water Heat Exch.																		
EQT25	CWHE335, Cooling Water Heat Exch.																		
EQT26	CWHE336, Cooling Water Heat Exch.																		
EQT27	CWHE337, Cooling Water Heat Exch.																		
EQT28	CWHE338, Cooling Water Heat Exch.																		
EQT29	CWHE339, Cooling Water Heat Exch.																		
EQT30	CWHE340, Cooling Water Heat Exch.																		
EQT31	CWHE341, Cooling Water Heat Exch.																		
EQT32	CWHE342, Cooling Water Heat Exch.																		
EQT33	CWHE343, Cooling Water Heat Exch.																		
EQT34	CWHE344, Cooling Water Heat Exch.																		
EQT35	CWHE345, Cooling Water Heat Exch.																		
EQT36	CWHE346, Cooling Water Heat Exch.																		
EQT37	CWHEXXX, Cooling Water Heat Exch.																		
EQT38	NNN-22a, Vent from NNN C-EO3240														2	2			
EQT39	NNN-22b, Vent from NNN C-EO3240														2	2			

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ID No.:	Description	LAC 33:III.Chapter															
		5	9	11	13	15	2103	2104	2107	2111	2115	2116	21	22	29*	51*	53
EQT240	NNN-22c, Vent from NNN C-EO3240												2	2			1
EQT241	NNN-22d, Vent from NNN C-EO3240												2	2			1
EQT242	NNN-23, Vent from NNN C-EG3110												2	2			1
EQT243	NNN-24, Vent from NNN C-EG3140												2	2			1
EQT244	NNN-25, Vent from NNN C-EG3150												2	2			1
EQT245	PWW-13, Process Wastewater E-EO3105																1
EQT246	PWW-14, Process Wastewater E-EO3221																
EQT247	PWW-15, Process Wastewater E-EO3226																
EQT248	PWW-16, Process Wastewater V-EO3261																
EQT249	PWW-17, Process Wastewater V-EO3151																
EQT250	PWW-18, Process Wastewater V-EO3251																
EQT251	PWW-19, Process Wastewater V-EO3304																
EQT252	PWW-20, Process Wastewater V-EO3321																
EQT253	RRR-01, Vent from RRR EO3												2	2			
EQT254	RRR-02, Vent from RRR EG3												2	2			1
EQT255	RRR-03, Vent from RRR BQ3.												2	2			1
FUG009	10-92, Fugitive Emissions EOEG3												1	2			1

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* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III 501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- | | |
|---|--|
| 1 | -The regulations have applicable requirements which apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements. |
| 2 | -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date. |
| 3 | -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.
LAC 33:III Chapter 29 and 51 – STATE ONLY requirements. |

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	S2	64	68	82						
GRP31	EOEG-3 Facility	1							1	1	1	1	1	1	1	1	2	1	1	1	1						
EQT191	04-94, EG Vacuum System Aftercondenser E-EG3252								1																		
EQT192	11-92, Equipment Drains Vessels V-EG3822								2								2										
EQT193	12-92, EO-3 CO2 Vent V-EO3221								1																		
EQT194	13-92, EOEG-3 Chemical Sewer Sump																										
EQT195	14-92, Process Area Drainage Impound Tank T-EO3841																										
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EQT197	16-92, Carbonate Tank T-EO3920								2																		
EQT198	18-92, Contaminated Steam Vent PV-12348																1			2							
EQT199	19A-92, EG-3 Vacuum System Horwell V-EG3251																2			2							
EQT200	20-92, Quenched Bleed Flasher Accumulator V-EG3321																2			1							
EQT201	22-92, EG Rundown Tank T-EG3924																2			1							

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		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	S2	64	68	82					
EQT202	23-92, EG Rundown Tank T-EG3925																									
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EQT216	CWHE326, Cooling Water Heat Exch.																									
EQT217	CWHE327, Cooling Water Heat Exch.																									

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR								
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82							
EQT218	CWHE328, Cooling Water Heat Exch.																	2										
EQT219	CWHE329, Cooling Water Heat Exch.																	2										
EQT220	CWHE330, Cooling Water Heat Exch.																	2										
EQT221	CWHE331, Cooling Water Heat Exch.																	2										
EQT222	CWHE332, Cooling Water Heat Exch.																	2										
EQT223	CWHE333, Cooling Water Heat Exch.																	2										
EQT224	CWHE334, Cooling Water Heat Exch.																	2										
EQT225	CWHE335, Cooling Water Heat Exch.																	2										
EQT226	CWHE336, Cooling Water Heat Exch.																	2										
EQT227	CWHE337, Cooling Water Heat Exch.																	2										
EQT228	CWHE338, Cooling Water Heat Exch.																	2										
EQT229	CWHE339, Cooling Water Heat Exch.																	2										
EQT230	CWHE340, Cooling Water Heat Exch.																	2										
EQT231	CWHE341, Cooling Water Heat Exch.																	2										
EQT232	CWHE342, Cooling Water Heat Exch.																	2										

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EQT233	CWHE343, Cooling Water Heat Exch.																										
EQT234	CWHE344, Cooling Water Heat Exch.																										
EQT235	CWHE345, Cooling Water Heat Exch.																										
EQT236	CWHE346, Cooling Water Heat Exch.																										
EQT237	CWHEXXX, Cooling Water Heat Exch.																										
EQT238	NNN-22a, Vent from NNN C-EO3240																										
EQT239	NNN-22b, Vent from NNN C-EO3240																										
EQT240	NNN-22c, Vent from NNN C-EO3240																										
EQT241	NNN-22d, Vent from NNN C-EO3240																										
EQT242	NNN-23, Vent from NNN C-EG3110																										
EQT243	NNN-24, Vent from NNN C-EG3140																										
EQT244	NNN-25, Vent from NNN C-EG3150																										
EQT245	PWW-13, Process Wastewater E-EO3105																										
EQT246	PWW-14, Process Wastewater E-EO3221																										
EQT247	PWW-15, Process Wastewater E-EO3226																										
EQT248	PWW-16, Process Wastewater V-EO3261																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
 AGENCY INTEREST NO.: 1136
 EOEG-3, GEISMAR PLANT
 GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR	
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82
EQT249	PWW-17, Process Wastewater V-EO3151																				
EQT250	PWW-18, Process Wastewater V-EO3251																				
EQT251	PWW-19, Process Wastewater V-EO3304																				
EQT252	PWW-20, Process Wastewater V-EO3321																				
EQT253	RRR-01, Vent from RRR EO3																				
EQT254	RRR-02, Vent from RRR EG3																				
EQT255	RRR-03, Vent from RRR BQ3.																				
FUG009	10-92, Fugitive Emissions EOEG3																2	1			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 11136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR							
		A	K	Ka	Kb	VV	RRR	NNN	A	J	M	FF	A	F	G	H	4Fs	52	64	68	82
KEY TO MATRIX																					

KEY TO MATRIX

- 1 -The regulations have applicable requirements which apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP28	NESHAP Subpart FFFF, Miscellaneous Manufacturing (MON), 40 CFR 63.2530(b)(3)	Not applicable. This unit is regulated under a HON requirement, 40 CFR 63 Subpart G
EQT191, 193, and 200	LAC 33:III.2115, Waste Gas Disposal LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Not applicable. The process is subject to the requirements of 40 CFR 63 Subpart G
EQT192, 205, and 206	LAC 33:III.2103, Storage of VOC NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110b(a)	Exempt. The process is subject to the requirements of 40 CFR 63 Subpart G Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
EQT194 thru 196	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132 LAC 33:III.2153.G.6, Limiting VOC From Industrial Wastewater	Not applicable. The tanks capacity less than the threshold Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101
EQT197, 203, 204, and 209	LAC 33:III.2103, Storage of VOC NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110b(b)	Exempt. The wastewater stream subject to the requirements of 40 CFR 63 Subpart G Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The tanks capacity greater than 40,000 gal and the vapor pressure less than 0.50 psia Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHELL CHEMICAL LP
AGENCY INTEREST NO.: 1136
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GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT199	LAC 33:III.2115, Waste Gas Disposal	Exempt. The stream has a combined weight of VOC less than 100 lbs in any 24 hour period. [LAC 33:III.2115.H.1.c.]
	LAC 33:III.2153.G.6, Limiting VOC From Industrial Wastewater NSPS, Subpart NNN, SOCMI Distillation Operations, 40 CFR 60.660	Exempt. The wastewater stream subject to the requirements of 40 CFR 63 Subpart G
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The vent does not originate from a distillation operation
EQT201, 202, and 207	LAC 33:III.2103, Storage of VOC NSPS Subpart Kb, VOL Storage Vessels, 40 CFR 60.110b	Not applicable. Does not meet the definition of storage vessel as per 40 CFR 63.101
EQT198 and 210	LAC 33:III.2115, Waste Gas Disposal	Not applicable. The true vapor pressure of stored material is less than 1.5 psia.
	LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Not applicable. The tank is subject to NESHAP, 40 CFR 63 Subpart G [40 CFR 63.110(b)(1)]
	NESHAP Subpart G, Storage Vessels, 40 CFR 63.119, 113, 132	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart NNN
EQT208	LAC 33:III.2201.C.6, Control of Emissions of Nitrogen Oxides	Exempt. The process is subject to the requirements of 40 CFR 60 Subpart NNN
		Not applicable. Does not meet the definition of process vent as per 40 CFR 63.101
		Exempt. The unit operates less than 400 hrs during the ozone season.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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AGENCY INTEREST NO.: 1136
EOEG-3, GEISMAR PLANT
GEISMAR, ASCENSION PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 238 thru 244	LAC 33:III.2115, Waste Gas Disposal	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart NNN
	LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Exempt. The process is subject to the requirements of 40 CFR 60 Subpart NNN
EQT253 thru 255	LAC 33:III.2115, Waste Gas Disposal	Not applicable. The process is subject to the requirements of 40 CFR 60 Subpart RRR
	LAC 33:III.2147.A.2.g, SOCMI Reactor Processes and Distillation Operations	Exempt. The process is subject to the requirements of 40 CFR 60 Subpart RRR
FUG009	LAC 33:III.2122.A.6.a, Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	Exempt. LDEQ approved an exemption via a letter dated December 16, 1994

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section VII of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

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4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).

1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement,

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written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
- b. Report by September 30 to cover April through June
- c. Report by December 31 to cover July through September
- d. Report by March 31 to cover October through December

4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
- 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
- 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;

4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);

- 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
- 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart II).

**LOUISIANA AIR EMISSION PERMIT
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- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire (EIQ) dated January 3, 2003; updated application and EIQ dated December 22, for a renewal and modification; and additional information dated February 20, 2003, May 31, 2006 and June 2, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the

**LOUISIANA AIR EMISSION PERMIT
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date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33:1 Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

**LOUISIANA AIR EMISSION PERMIT
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1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- ~~D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.~~
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

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- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

ATTACHMENT A

REMOVED

<u>Emission Point</u>	<u>Description</u>
1-91	Lean Absorbent Surge Tank
1B-85	DEG Rundown Tank
1D85	TEG Rundown Tank
2-71	CO2 Vent
2-91	Brine Surge Tank
3-71	Cooling Tower
5-83	Process Steam Vent
5-91	Process Analyzer
6A-83	Hotwell Vent
8-71	140 Vent
9-71	300 Vent
15B2-71	TEG Rundown Tank
15C2-71	TEG Rundown Tank
15Y1-71	DEG Rundown Tank
15Z1-71	DEG Rundown Tank
18-96	Contaminated Steam Vent
19-96	Sour Oil Gas Vent
21-96	Barometric Vent
22-96	Water Surge Drum Vent
22A-87	Cooling tower
55A-88	Fugitive Emissions
55B-88	Fugitive Emissions
96-00	Oxidizer Vent

PUMPS

<u>Equipment No.</u>	<u>Description</u>
P-E0701	LE Column Feed
P-E0702	Spare for 701
P-E0703	LE Column Bottoms
P-E0704	Spare for 703/705
P-E0705	ACH Column Bottoms
P-E0706	EO Dehydration Column Bottoms
P-E0707	Spare for 706
P-E0708	EO Purification Column-Bottoms
P-E0709	Spare for 708
P-E0710	High Purity EO
P-E0711	Spare for 710
P-E0712	EO Purification Column Reflux
P-E0713	Spare for 712
P-E0719	Spare for 705

ATTACHMENT A

PUMPS

<u>Equipment No.</u>	<u>Description</u>
P-EO990	EO Shipping
P-EO991	Spare for 990
P-EO992	EO Rerun
P-EO993	EO Rerun
P-EO994	M/EGE EO feed
P-EO995	Spare for 994
P-EG501	EO Feed to EG-2
P-EG502	Spare for 501
P-EGE103	EO Feed t Reactor

General Information

All ID: 1136 Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
LAO5258	ADV#	Shell Chemical Co - Geismar Plant	Asbestos	04-14-2003
0180-00010		Shell Chemical Co - Geismar Plant	CDS Number	08-22-2002
0180-0010		Emission Inventory		02-25-2004
13-1299890	Federal Tax ID	Federal Tax ID		11-21-1999
LAD003913183		Hazardous Waste Notification		09-02-1983
LAD003913183	Geismar Plt Permits No	Inactive & Abandoned Sites		06-09-1981
LA0005754	WPC File Number	LPDES Permit #		06-25-2003
WP1347	WPC State Permit Number	LWDPS Permit #		06-25-2003
LA-2132-L01	Radioactive Material License	Radiation License Number		05-26-1987
2132	X-Ray Registration Number	Radiation X-ray Registration Number		11-21-1999
G-005-1740	Site Id #	Solid Waste Facility No.		11-21-1999
17631	Shell Chemical Co Geismar Works	TEMPO Merge		01-19-2001
34601	Shell Chemical LP - Geismar	TEMPO Merge		08-05-2001
38774	Shell Chemical Co	TEMPO Merge		08-05-2001
47981	Shell Chemical Co	TEMPO Merge		03-08-2001
67594	Shell Chemical Co	TEMPO Merge		08-05-2001
0180-0010	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #		01-01-1991
70737SHLLCRIVER	TRI #	Toxic Release Inventory		07-19-2004
03-008346	UST Facility ID #	Underground Storage Tanks		10-11-2002
Physical Location:	7594 Hwy 75 Geismar, LA 70734	Main Phone:	22520162222	
Mailing Address:	PO Box 500 Geismar, LA 707340500			
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Permit Contact For
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Asbestos Contact for
Arne Adrian	Arne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Billing Party for
Leo Broering	Leo Broering	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Responsible Official for
Robert Evans	Robert Evans	PO Box 500 Geismar, LA 70734	2252016456 (WP)	Radiation Safety Officer for
Robert Evans	Robert Evans	PO Box 500 Geismar, LA 70734	2252016456 (WP)	Radiation Contact For
Kathleen Garey	Kathleen Garey	PO Box 500 Geismar, LA 70734	2252016782 (WP)	Accident Prevention Contact for
Kathleen Garey	Kathleen Garey	PO Box 500 Geismar, LA 70734	2252016482 (WF)	Accident Prevention Contact for
Greg Kamla	Greg Kamla	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Permit Contact For

General Information

AI ID: 1136 Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Keith Miller	PO Box 500 Geismar, LA 70731	2252106247 (WP)	Hazardous Waste Permit Contact For
	Keith Miller	PO Box 500 Geismar, LA 70731	2252016030 (WF)	Hazardous Waste Permit Contact For
	Kris Torberson	PO Box 500 Geismar, LA 70734	2252016328 (WP)	Accident Prevention Billing Party for
	Kris Torberson	PO Box 500 Geismar, LA 70734	2252016030 (WF)	Accident Prevention Billing Party for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	UST Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Owns
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Operates
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation License Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT191	04-94, EG Vacuum System Aftercondenser E-EG-3252	1200 gallons				8760 hr/yr (All Ye
EQT192	11-92, EG-3 Equipment Drains Vessel V-EG3822	2593 ft^3/min (actual)	98000 gallons/yr	520 MM lbs/yr	Ethylene oxide	8760 hr/yr (All Ye
EQT193	12-92, EO-3 CC2 Vent V-EO3221	2460 gallons		302 gallons/min		8760 hr/yr (All Ye
EQT194	13-92, EOEG-3 Chemical Sewer Sump	300000 gallons		3.6 MM gallons/yr		8760 hr/yr (All Ye
EQT195	14-92, Process Area Drainage Impound Tank T-EO3841	300000 gallons		3.6 MM gallons/yr		8760 hr/yr (All Ye
EQT196	15-92, Process Area Drainage Impound Tank T-EO3842	530000 gallons		200000 gallons/yr		8760 hr/yr (All Ye
EQT197	16-92, Carbonate Tank T-EO3920	4505 ft^3/min (actual)		656 MM lbs/yr	Glycols	8760 hr/yr (All Ye
EQT198	18-92, Contaminated Steam Vent PV-1234B			130 lb/hr	Air	8760 hr/yr (All Ye
EQT199	19A-92, EG-3 Vacuum System Hotwell V-EG3251	215 gallons		520 MM lbs/yr	Ethylene Oxide	8760 hr/yr (All Ye
EQT200	20-92, Quenched Bleed Flasher Accumulation V-EG3321	132192 gallons		30.6 MM gallons/yr		8760 hr/yr (All Ye
EQT201	22-92, EG Rundown Tank T-EG3924	132192 gallons		30.6 MM gallons/yr		8760 hr/yr (All Ye
EQT202	23-92, EG Rundown Tank T-EG3925	14381 gallons		2.7 MM gallons/yr		8760 hr/yr (All Ye
EQT203	24-92, DEG Rundown Tank T-EG3926	14381 gallons		2.7 MM gallons/yr		8760 hr/yr (All Ye
EQT204	25-92, EG Rundown Tank T-EG3927	3008 gallons		655000 gallons/yr		8760 hr/yr (All Ye
EQT205	26-92, TEG Rundown Tank T-EG3928	3008 gallons		655000 gallons/yr		8760 hr/yr (All Ye
EQT206	27-92, TEG Rundown Tank T-EG3929	190343 gallons		951000 gallons/yr		8760 hr/yr (All Ye
EQT207	29-92, Glycol Rerun Tank T-EG3931			270 horsepower		68 hr/yr (All Year
EQT208	30A-92, PAD Sump Pump Driver					
EQT209	31-92, Coolant Storage Tank T-EO3910	182729 gallons		380000 gallons/yr		8760 hr/yr (All Ye
EQT210	801-05, EO-3 Absorber Vent C-EO30XX					8760 hr/yr (All Ye
EQT211	CWHE321, Cooling Water Heat Exchanger E-EO3102					8760 hr/yr (All Ye
EQT212	CWHE322, Cooling Water Heat Exchanger E-EO3108					8760 hr/yr (All Ye
EQT213	CWHE323, Cooling Water Heat Exchanger E-EO3201					8760 hr/yr (All Ye
EQT214	CWHE324, Cooling Water Heat Exchanger E-EO3202					8760 hr/yr (All Ye
EQT215	CWHE325, Cooling Water Heat Exchanger E-EO3203					8760 hr/yr (All Ye
EQT216	CWHE326, Cooling Water Heat Exchanger E-EO3205					8760 hr/yr (All Ye
EQT217	CWHE327, Cooling Water Heat Exchanger E-EO3212					8760 hr/yr (All Ye
EQT218	CWHE328, Cooling Water Heat Exchanger E-EO3221					8760 hr/yr (All Ye
EQT219	CWHE329, Cooling Water Heat Exchanger E-EO3222					8760 hr/yr (All Ye
EQT220	CWHE330, Cooling Water Heat Exchanger E-EO3232					8760 hr/yr (All Ye
EQT221	CWHE331, Cooling Water Heat Exchanger E-EO3233					8760 hr/yr (All Ye
EQT222	CWHE332, Cooling Water Heat Exchanger E-EO3235					8760 hr/yr (All Ye
EQT223	CWHE333, Cooling Water Heat Exchanger E-EO3236					8760 hr/yr (All Ye
EQT224	CWHE334, Cooling Water Heat Exchanger E-EO3237					8760 hr/yr (All Ye
EQT225	CWHE335, Cooling Water Heat Exchanger E-EO3238					8760 hr/yr (All Ye
EQT226	CWHE336, Cooling Water Heat Exchanger E-EO3241					8760 hr/yr (All Ye
EQT227	CWHE337, Cooling Water Heat Exchanger E-EO3242					8760 hr/yr (All Ye

INVENTORIES
 AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20030002
 Permit Number: 2185-V2
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT228	CWHE338, Cooling Water Heat Exchanger E-EO3248					8760 hr/yr (All Ye
EQT229	CWHE339, Cooling Water Heat Exchanger E-EO3249					8760 hr/yr (All Ye
EQT230	CWHE340, Cooling Water Heat Exchanger E-EO3260					8760 hr/yr (All Ye
EQT231	CWHE341, Cooling Water Heat Exchanger E-EO3261					8760 hr/yr (All Ye
EQT232	CWHE342, Cooling Water Heat Exchanger E-EO3263					8760 hr/yr (All Ye
EQT233	CWHE343, Cooling Water Heat Exchanger E-EO3264					8760 hr/yr (All Ye
EQT234	CWHE344, Cooling Water Heat Exchanger E-EO3271					8760 hr/yr (All Ye
EQT235	CWHE345, Cooling Water Heat Exchanger E-EO3274					8760 hr/yr (All Ye
EQT236	CWHE346, Cooling Water Heat Exchangers (Pumps and Seals)					8760 hr/yr (All Ye
EQT237	CWHEXXX, Cooling Water Heat Exchangers (20) in EG-3					8760 hr/yr (All Ye
EQT238	NNN-22a, Vent from NNN C-EO3240					8760 hr/yr (All Ye
EQT239	NNN-22b, Vent from NNN C-EO3240					8760 hr/yr (All Ye
EQT240	NNN-22c, Vent from NNN C-EO3240					8760 hr/yr (All Ye
EQT241	NNN-22d, Vent from NNN C-EO3240					8760 hr/yr (All Ye
EQT242	NNN-23, Vent from NNN C-EG3110					8760 hr/yr (All Ye
EQT243	NNN-24, Vent from NNN C-EG3140					8760 hr/yr (All Ye
EQT244	NNN-25, Vent from NNN C-EG3150					8760 hr/yr (All Ye
EQT245	PWW-13, Process Wastewater E-EO3105					8760 hr/yr (All Ye
EQT246	PWW-14, Process Wastewater V-EO3221					8760 hr/yr (All Ye
EQT247	PWW-15, Process Wastewater E-EO3226					8760 hr/yr (All Ye
EQT248	PWW-16, Process Wastewater V-EO3261					8760 hr/yr (All Ye
EQT249	PWW-17, Process Wastewater V-EO3151					8760 hr/yr (All Ye
EQT250	PWW-18, Process Wastewater V-EO3251					8760 hr/yr (All Ye
EQT251	PWW-19, Process Wastewater V-EO3304					8760 hr/yr (All Ye
EQT252	PWW-20, Process Wastewater V-EO3321					8760 hr/yr (All Ye
EQT253	RRR-01, Vent from RRR EO3					8760 hr/yr (All Ye
EQT254	RRR-02, Vent from RRR EG3					8760 hr/yr (All Ye
EQT255	RRR-03, Vent from RRR QB3					8760 hr/yr (All Ye
FUG009	10-92, Fugitive Emissions EOEG-3					8760 hr/yr (All Ye

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	EOEG-3 Facility	EQT191 04-94, EG Vacuum System Aftercondenser E-EG-3252
GRP031	EOEG-3 Facility	EQT192 11-92, EG-3 Equipment Drains Vessel V-EG3872
GRP031	EOEG-3 Facility	EQT193 12-92, EO-3 CO2 Vent V-EO3221
GRP031	EOEG-3 Facility	EQT194 13-92, EOEG-3 Chemical Sewer Sump

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	EOEG-3 Facility	EQT195 14-92, Process Area Drainage Impound Tank T-EO3841
GRP031	EOEG-3 Facility	EQT196 15-92, Process Area Drainage Impound Tank T-EO3842
GRP031	EOEG-3 Facility	EQT197 16-92, Carbonate Tank T-EO3920
GRP031	EOEG-3 Facility	EQT198 18-92, Contaminated Steam Vent PV-1234B
GRP031	EOEG-3 Facility	EQT199 19A-92, EG-3 Vacuum System Hotwell V-EG3251
GRP031	EOEG-3 Facility	EQT200 20-92, Quenched Bleed Flasher Accumulation V-EG3321
GRP031	EOEG-3 Facility	EQT201 22-92, EG Rundown Tank T-EG3924
GRP031	EOEG-3 Facility	EQT202 23-92, EG Rundown Tank T-EG3925
GRP031	EOEG-3 Facility	EQT203 24-92, DEG Rundown Tank T-EG3926
GRP031	EOEG-3 Facility	EQT204 25-92, EG Rundown Tank T-EG3927
GRP031	EOEG-3 Facility	EQT205 26-92, TEG Rundown Tank T-EG3928
GRP031	EOEG-3 Facility	EQT206 27-92, TEG Rundown Tank T-EG3929
GRP031	EOEG-3 Facility	EQT207 29-92, Glycol Runup Tank T-EG3931
GRP031	EOEG-3 Facility	EQT208 30A-92, PAD Sump Pump Driver
GRP031	EOEG-3 Facility	EQT209 31-92, Coolant Storage Tank T-EO3910
GRP031	EOEG-3 Facility	EQT210 801-05, EO-3 Absorber Vent C-EO3XX
GRP031	EOEG-3 Facility	EQT211 CWHE321, Cooling Water Heat Exchanger E-EO3102
GRP031	EOEG-3 Facility	EQT212 CWHE322, Cooling Water Heat Exchanger E-EO3108
GRP031	EOEG-3 Facility	EQT213 CWHE323, Cooling Water Heat Exchanger E-EO3201
GRP031	EOEG-3 Facility	EQT214 CWHE324, Cooling Water Heat Exchanger E-EO3202
GRP031	EOEG-3 Facility	EQT215 CWHE325, Cooling Water Heat Exchanger E-EO3203
GRP031	EOEG-3 Facility	EQT216 CWHE326, Cooling Water Heat Exchanger E-EO3205
GRP031	EOEG-3 Facility	EQT217 CWHE327, Cooling Water Heat Exchanger E-EO3212
GRP031	EOEG-3 Facility	EQT218 CWHE328, Cooling Water Heat Exchanger E-EO3221
GRP031	EOEG-3 Facility	EQT219 CWHE329, Cooling Water Heat Exchanger E-EO3222
GRP031	EOEG-3 Facility	EQT220 CWHE330, Cooling Water Heat Exchanger E-EO3232
GRP031	EOEG-3 Facility	EQT221 CWHE331, Cooling Water Heat Exchanger E-EO3233
GRP031	EOEG-3 Facility	EQT222 CWHE332, Cooling Water Heat Exchanger E-EO3235
GRP031	EOEG-3 Facility	EQT223 CWHE333, Cooling Water Heat Exchanger E-EO3236
GRP031	EOEG-3 Facility	EQT224 CWHE334, Cooling Water Heat Exchanger E-EO3237
GRP031	EOEG-3 Facility	EQT225 CWHE335, Cooling Water Heat Exchanger E-EO3238
GRP031	EOEG-3 Facility	EQT226 CWHE336, Cooling Water Heat Exchanger E-EO3241
GRP031	EOEG-3 Facility	EQT227 CWHE337, Cooling Water Heat Exchanger E-EO3242
GRP031	EOEG-3 Facility	EQT228 CWHE338, Cooling Water Heat Exchanger E-EO3248
GRP031	EOEG-3 Facility	EQT229 CWHE339, Cooling Water Heat Exchanger E-EO3249
GRP031	EOEG-3 Facility	EQT230 CWHE340, Cooling Water Heat Exchanger E-EO3250
GRP031	EOEG-3 Facility	EQT231 CWHE341, Cooling Water Heat Exchanger E-EO3261

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP031	EOEG-3 Facility	EQT232 CWHE342, Cooling Water Heat Exchanger E-EO3263
GRP031	EOEG-3 Facility	EQT233 CWHE343, Cooling Water Heat Exchanger E-EO3264
GRP031	EOEG-3 Facility	EQT234 CWHE344, Cooling Water Heat Exchanger E-EO3271
GRP031	EOEG-3 Facility	EQT235 CWHE345, Cooling Water Heat Exchanger E-EO3274
GRP031	EOEG-3 Facility	EQT236 CWHE346, Cooling Water Heat Exchangers (Pumps and Seals) EQT237 CWHEXXX, Cooling Water Heat Exchangers (20) in EG-3
GRP031	EOEG-3 Facility	EQT238 NNN-22a, Vent from NNN C-EO3240
GRP031	EOEG-3 Facility	EQT239 NNN-22b, Vent from NNN C-EO3240
GRP031	EOEG-3 Facility	EQT240 NNN-22c, Vent from NNN C-EO3240
GRP031	EOEG-3 Facility	EQT241 NNN-22d, Vent from NNN C-EO3240
GRP031	EOEG-3 Facility	EQT242 NNN-23, Vent from NNN C-EG3110
GRP031	EOEG-3 Facility	EQT243 NNN-24, Vent from NNN C-EG3140
GRP031	EOEG-3 Facility	EQT244 NNN-25, Vent from NNN C-EG3150
GRP031	EOEG-3 Facility	EQT245 PWW-13, Process Wastewater E-EO3105
GRP031	EOEG-3 Facility	EQT246 PWW-14, Process Wastewater V-EO3221
GRP031	EOEG-3 Facility	EQT247 PWW-15, Process Wastewater E-EO3226
GRP031	EOEG-3 Facility	EQT248 PWW-16, Process Wastewater V-EO3261
GRP031	EOEG-3 Facility	EQT249 PWW-17, Process Wastewater V-EO3151
GRP031	EOEG-3 Facility	EQT250 PWW-18, Process Wastewater V-EO3251
GRP031	EOEG-3 Facility	EQT251 PWW-19, Process Wastewater V-EO3304
GRP031	EOEG-3 Facility	EQT252 PWW-20, Process Wastewater V-EO3321
GRP031	EOEG-3 Facility	EQT253 RRR-01, Vent from RRR EO3
GRP031	EOEG-3 Facility	EQT254 RRR-02, Vent from RRR EG3
GRP031	EOEG-3 Facility	EQT255 RRR-03, Vent from RRR QB3
GRP031	EOEG-3 Facility	FUG9 10-92, Fugitive Emissions EOEG-3

Relationships:

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT191	04-94, EG Vacuum System Aftercondenser E-EG-3252	9.8	.25	.23	60	90
EQT192	11-92, EG-3 Equipment Drains Vessel V-EG3822	.01	.03	.17	80	120
EQT193	12-92, EO-3 CO2 Vent V-EO3221	13.76	2593	2	160	140
EQT194	13-92, EOEG-3 Chemical Sewer Sump					
EQT195	14-92, Process Areas Drainage Impound Tank T-EC3841				28	70
EQT196	15-92, Process Areas Drainage Impound Tank T-EC3842				28	70
EQT197	16-92, Carbonate Tank T-EO3920				19	70
EQT198	18-92, Contaminated Steam Vent PV-1234B	1.39	45.05	1	50	300

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Tempera (°F)
EQT199 19A-92, EG-3 Vacuum System Hotwell V-EG3251	18.05	30.08	.03		30	90
EQT200 20-92, Quenched Bleed Flasher Accumulation V-EG321	.27	1.43	.33		50	118
EQT201 22-92, EG Rundown Tank T-EG3924					27	120
EQT202 23-92, EG Rundown Tank T-EG3925					27	120
EQT203 24-92, DEG Rundown Tank T-EG3926					16	120
EQT204 25-92, EG Rundown Tank T-EG3927					16	120
EQT205 26-92, TEG Rundown Tank T-EG3928					9.5	120
EQT206 27-92, TEG Rundown Tank T-EG3929					9.5	120
EQT207 29-92, Glycol Rerun Tank T-EG3931					29	120
EQT208 30A-92, PAD Sump Pump Driver	103	1208	.5		20	1100
EQT209 31-92, Coolant Storage Tank T-EO3910					27	70
EQT210 801-05 EO-3 Absorber Vent C-EO3XX						
EQT211 CWHE321, Cooling Water Heat Exchanger E-EO3102						
EQT212 CWHE322, Cooling Water Heat Exchanger E-EO3108						
EQT213 CWHE323, Cooling Water Heat Exchanger E-EO3201						
EQT214 CWHE324, Cooling Water Heat Exchanger E-EO3202						
EQT215 CWHE325, Cooling Water Heat Exchanger E-EO3203						
EQT216 CWHE326, Cooling Water Heat Exchanger E-EO3205						
EQT217 CWHE327, Cooling Water Heat Exchanger E-EO3212						
EQT218 CWHE328, Cooling Water Heat Exchanger E-EO3221						
EQT219 CWHE329, Cooling Water Heat Exchanger E-EO3222						
EQT220 CWHE330, Cooling Water Heat Exchanger E-EO3232						
EQT221 CWHE331, Cooling Water Heat Exchanger E-EO3233						
EQT222 CWHE332, Cooling Water Heat Exchanger E-EO3235						
EQT223 CWHE333, Cooling Water Heat Exchanger E-EO3236						
EQT224 CWHE334, Cooling Water Heat Exchanger E-EO3237						
EQT225 CWHE335, Cooling Water Heat Exchanger E-EO3238						
EQT226 CWHE336, Cooling Water Heat Exchanger E-EO3241						
EQT227 CWHE337, Cooling Water Heat Exchanger E-EO3242						
EQT228 CWHE338, Cooling Water Heat Exchanger E-EO3248						
EQT229 CWHE339, Cooling Water Heat Exchanger E-EO3249						
EQT230 CWHE340, Cooling Water Heat Exchanger E-EO3260						
EQT231 CWHE341, Cooling Water Heat Exchanger E-EO3261						
EQT232 CWHE342, Cooling Water Heat Exchanger E-EO3263						
EQT233 CWHE343, Cooling Water Heat Exchanger E-EO3264						
EQT234 CWHE344, Cooling Water Heat Exchanger E-EO3271						
EQT235 CWHE345, Cooling Water Heat Exchanger E-EO3274						
EQT236 CWHE346, Cooling Water Heat Exchangers (Pumps and Seals)						
EQT237 CWHEXXX, Cooling Water Heat Exchangers (20) in EG-3						
EQT238 NNN-22a, Vent from NNN C-EO3240						
EQT239 NNN-22b, Vent from NNN C-EO3240						
EQT240 NNN-22c, Vent from NNN C-EO3240						

INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant
 Activity Number: PER20030002
 Permit Number: 2185-V2
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT241	NNN-22d, Vent from NNN C-EO3240						
EQT242	NNN-23, Vent from NNN C-E G3110						
EQT243	NNN-24, Vent from NNN C-E G3140						
EQT244	NNN-25, Vent from NNN C-E G3150						
EQT245	PWW-13, Process Wastewater E-EO3105						
EQT246	PWW-14, Process Wastewater V-EO3221						
EQT247	PWW-15, Process Wastewater E-EO3226						
EQT248	PWW-16, Process Wastewater V-EO3261						
EQT249	PWW-17, Process Wastewater V-EO3151						
EQT250	PWW-18, Process Wastewater V-EO3251						
EQT251	PWW-19, Process Wastewater V-EO3304						
EQT252	PWW-20, Process Wastewater V-EO3321						
EQT253	RRR-01, Vent from RRR EO3						
EQT254	RRR-02, Vent from RRR EG3						
EQT255	RRR-03, Vent from RRR QB3						

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP031	1	MM Lb/Yr	0620 - Halogenated Hydrocarbons (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	SO ₂	PM ₁₀	NOx	CO	VOC
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 191 04-94							0.60	7.00
EQT 192 11-92							0.001	0.01
EQT 193 12-92							2.50	2.50
EQT 194 13-92							0.001	0.001
EQT 195 14-92							0.03	4.00
EQT 196 15-92							0.03	4.00
EQT 197 16-92							0.001	0.01
EQT 198 18-92							0.002	7.00
EQT 199 19A-92							0.001	5.00
EQT 200 20-92							0.13	7.00
EQT 201 22-92							0.02	5.00
EQT 202 23-92							0.02	5.00
EQT 203 24-92							0.001	5.00
EQT 204 25-92							0.001	5.00
EQT 205 26-92							0.001	5.00
EQT 206 27-92							0.001	5.00
EQT 207 29-92							0.01	5.00
EQT 208 30A-92	0.59	1.18	0.02	0.55	1.10	0.02	8.37	16.74
							1.80	3.60
							0.06	0.80
							1.60	0.03

EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 209 31-92													0.04	1.00	0.17
EQT 210 80-105										0.001	0.50	0.01	0.05	4.50	0.22
FUG 009 10-92													6.97		30.51

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Acetaldehyde		Allyl chloride		Ethylene glycol		Ethylene oxide		Formaldehyde	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 191 04-94	0.60	7.00	2.63	0.001	1.00	0.001	0.001	1.00	0.01
EQT 192 11-92							0.001		0.01
EQT 193 12-92	0.06	0.28	0.002	0.01	0.45	0.45	1.99	0.65	2.83
EQT 194 13-92	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.001	0.001
EQT 195 14-92	0.004	1.00	0.02			0.02	1.00	0.08	0.004
EQT 196 15-92	0.004	1.00	0.02			0.02	1.00	0.08	0.004
EQT 197 16-92						0.001	0.01		
EQT 198 18-92	0.002	1.00	0.01	0.001	1.00	0.001	0.001	1.00	0.01
EQT 199 19A-92				0.001	1.00	0.001	0.001	1.00	0.01
EQT 200 20-92	0.002	1.00	0.01	0.001	1.00	0.001	0.001	1.00	0.01
EQT 201 22-92				0.001	1.00	0.001	0.001	1.00	0.01
EQT 202 23-92				0.001	1.00	0.001	0.001	1.00	0.01
EQT 203 24-92				0.001	1.00	0.001			
EQT 204 25-92				0.001	1.00	0.001			
EQT 205 26-92				0.001	1.00	0.001			
EQT 206 27-92				0.001	1.00	0.001			
EQT 207 28-92				0.001	1.00	0.001	0.01	1.00	0.05
EQT 210 30-105	0.001	0.50	0.01	0.001	0.50	0.001	0.003	0.50	0.04
							1.00	1.00	0.18
								0.004	0.50
									0.02

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
EQT 191 04-94			
EQT 192 11-92			
EQT 193 12-92			
EQT 194 13-92			
EQT 195 14-92			
EQT 196 15-92			
EQT 197 16-92			
EQT 198 18-92			
EQT 199 19A-92			
EQT 200 20-92			
EQT 201 22-92			
EQT 202 23-92			
EQT 203 24-92			
EQT 204 25-92			
EQT 205 26-92			
EQT 206 27-92			
EQT 207 28-92			
EQT 210 801-05			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Acetaldehyde		Allyl chloride		Ethylene glycol		Ethylene oxide		Formaldehyde	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
FUG 009 10-92				0.001	0.48		2.12	0.80	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

All phases

Methanol			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
FUG 009 10:92	0.08		0.34

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185.V2

Air - Title V Regular Permit Renewal

EQT191 04-94, EG Vacuum System Aftercondenser E-EG-3252

- 1 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51.
[LAC 33:III.5109.A]
- 2 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]

Which Months: All Year Statistical Basis: None specified

- 3 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 4 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 5 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]

- 6 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7).
Subpart NNN [40 CFR 60.665(l)]
- 7 TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]

Which Months: All Year Statistical Basis: None specified

- 8 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 9 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1).
Subpart G. [40 CFR 63.117(b)]

- 10 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]

- 11 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]

EQT192 11-92, EG-3 Equipment Drains Vessel V-EG3822

- 12 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT193 12-92, EO-3 CO2 Vent V-EO3221

- 13 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51.
[LAC 33:III.5109.A]

- 14 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]

Which Months: All Year Statistical Basis: None specified

- 15 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.660(e), 40 CFR 60.660(f)]
- 16 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT193 12-92, EO-3 CO₂ Vent V-EO3221

- 17 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(j)(7)]
- 18 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7).
- 19 TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
Which Months: All Year Statistical Basis: None specified
- 20 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 21 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]
- 22 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculation of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]
- 23 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]

EQT194 13-92, EOEG-3 Chemical Sewer Sump

- 24 Compliance with all the applicable requirements of NESHAP, 40 CFR 63. Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 25 Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]

EQT195 14-92, Process Area Drainage Impound Tank T-EO3841

- 26 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 27 Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]

EQT196 15-92, Process Area Drainage Impound Tank T-EO3920

- 28 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III.5109.A]
- 29 Group 2: Shall comply with the applicable requirements of recordkeeping and reporting as specified in 40 CFR 63.146(b)(1) and 40 CFR 63.147(b)(8). [40 CFR 63.132(a)(3), 40 CFR 63.146(b)(1), 40 CFR 63.147(b)(8)]

EQT197 16-92, Carbonate Tank T-EO3920

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT197 16-92, Carbonate Tank T-EO3920

- 30 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]

EQT198 18-92, Contaminated Steam Vent PV-1234B

- 31 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]
- 32 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
Which Months: All Year Statistical Basis: None specified
- 33 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 34 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 35 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysis type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 36 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7).
Subpart NNN. [40 CFR 60.665(l)]

EQT199 19A-92, EG-3 Vacuum System Hotwell V-EG3251

- 37 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]

EQT200 20-92, Quenched Bleed Flasher Accumulation V-EG3321

- 38 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]
- 39 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
Which Months: All Year Statistical Basis: None specified
- 40 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 41 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 42 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysis type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 43 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7).
Subpart NNN. [40 CFR 60.665(l)]
- 44 TRE index value > 4.0 (no units). Subpart G. [40 CFR 63.113(e)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT200 20-92, Quenched Bleed Flasher Accumulation V-EG3321

- 45 Recalculate the TRE index value, flow, or organic hazardous air pollutants concentration for each process vent, as necessary to determine whether the vent is Group 1 or Group 2, whenever process changes are made that could reasonably be expected to change the vent to a Group 1 vent. Subpart G. [40 CFR 63.115(e)]
- 46 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of measurements, engineering assessments, and calculations performed to determine the TRE index value of the vent stream. Include all data, assumptions and procedures used for the engineering assessments, as specified in 40 CFR 63.115(d)(1). Subpart G. [40 CFR 63.117(b)]

- 47 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of any process changes as defined in 40 CFR 63.115(e), and any recalculations of the TRE index value pursuant to 40 CFR 63.115(e). Subpart G. [40 CFR 63.118(c)]

- 48 Submit report: Due within 180 calendar days after a process change, as defined in 40 CFR 63.115(e), is made that causes a Group 2 process vent with a TRE greater than 4.0 to become a Group 2 process vent with a TRE less than 4.0. Include the information specified in 40 CFR 63.118(h)(1) through (h)(3). Subpart G. [40 CFR 63.118(h)]

EQT201 22-92, EG Rundown Tank T-EG3924

- 49 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III, 5109.A]

- 50 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

EQT202 23-92, EG Rundown Tank T-EG3925

- 51 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III, 5109.A]

- 52 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

EQT203 24-92, DEG Rundown Tank T-EG3926

- 53 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III, 5107, LAC 33:III, 5109.A]

EQT204 25-92, EG Rundown Tank T-EG3927

- 54 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III, 5107, LAC 33:III, 5109.A]

EQT205 26-92, TEG Rundown Tank T-EG3928

- 55 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III, 5107, LAC 33:III, 5109.A]

EQT206 27-92, TEG Rundown Tank T-EG3929

- 56 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III, 5107, LAC 33:III, 5109.A]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT207 29-92, Glycol Rerun Tank T-EG3931

- 57 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III Chapter 51. [LAC 33:III.5109.A]
- 58 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.119(a)(3), 40 CFR 63.123(a)]

EQT208 30A-92, PAD Sump Pump Driver

- 59 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or trapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 60 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average

EQT209 31-92, Coolant Storage Tank T-EO3910

- 61 Emits Class III toxic air pollutant. No MACT is required. [LAC 33:III.5107, LAC 33:III.5109.A]

EQT210 801-05, EO-3 Absorber Vent C-EO3XXX

- 62 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III Chapter 51. [LAC 33:III.5109.A]
- 63 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
- Which Months: All Year Statistical Basis: None specified
- 64 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 65 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 66 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 67 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7) Subpart NNN. [40 CFR 60.665(l)]

EQT211 CWHE321, Cooling Water Heat Exchanger E-EO3102

- 68 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III Chapter 51. [LAC 33:III.5109.A]
- 69 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT212 CWHE322, Cooling Water Heat Exchanger E-EO3108

70 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

71 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT213 CWHE323, Cooling Water Heat Exchanger E-EO3201

72 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

73 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT214 CWHE324, Cooling Water Heat Exchanger E-EO3202

74 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

75 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT215 CWHE325, Cooling Water Heat Exchanger E-EO3203

76 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

77 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT216 CWHE326, Cooling Water Heat Exchanger E-EO3205

78 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

79 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT217 CWHE327, Cooling Water Heat Exchanger E-EO3212

80 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

81 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT218 CWHE328, Cooling Water Heat Exchanger E-EO3221

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT218 CWHE328, Cooling Water Heat Exchanger E-E03221

- 82 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
83 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT219 CWHE329, Cooling Water Heat Exchanger E-E03222

- 84 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
85 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT220 CWHE330, Cooling Water Heat Exchanger E-E03222

- 86 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
87 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT221 CWHE331, Cooling Water Heat Exchanger E-E03233

- 88 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
89 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT222 CWHE332, Cooling Water Heat Exchanger E-E03235

- 90 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
91 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT223 CWHE333, Cooling Water Heat Exchanger E-E03235

- 92 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
93 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT224 CWHE334, Cooling Water Heat Exchanger E-E03237

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT224 CWHE334, Cooling Water Heat Exchanger E-EO3237

- 94 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 95 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT225 CWHE335, Cooling Water Heat Exchanger E-EO3238

- 96 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 97 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT226 CWHE336, Cooling Water Heat Exchanger E-EO3241

- 98 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 99 The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]

EQT227 CWHE337, Cooling Water Heat Exchanger E-EO3242

- 100 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 101 The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]

EQT228 CWHE338, Cooling Water Heat Exchanger E-EO3248

- 102 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 103 The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]

EQT229 CWHE339, Cooling Water Heat Exchanger E-EO3249

- 104 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]
- 105 The heat exchange system is operated with the minimum pressure on the cooling water side at least 5.1 psi or greater than the maximum pressure on the process side. Subpart F. [40 CFR 63.104(a)(1)]

EQT230 CWHE340, Cooling Water Heat Exchanger E-EO3260

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT230 CWHE340, Cooling Water Heat Exchanger E-EQ3260

106 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

107 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT231 CWHE341, Cooling Water Heat Exchanger E-EQ3261

108 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

109 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT232 CWHE342, Cooling Water Heat Exchanger E-EQ3263

110 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

111 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT233 CWHE343, Cooling Water Heat Exchanger E-EQ3264

112 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

113 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT234 CWHE344, Cooling Water Heat Exchanger E-EQ3271

114 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

115 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT235 CWHE345, Cooling Water Heat Exchanger E-EQ3274

116 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [LAC 33:III.5109.A]

117 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT236 CWHE346, Cooling Water Heat Exchangers (Pumps and Seals)

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant
Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT236 CWHE346, Cooling Water Heat Exchangers (Pumps and Seals)

- 118 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51. [LAC 33.III.5109.A]
119 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT237 CWHEXXX, Cooling Water Heat Exchangers (20) in EG-3

- 120 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.104 is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51. [LAC 33.III.5109.A]
121 The recirculating heat exchange system is used to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of Subpart F. [40 CFR 63.104(a)(5)]

EQT238 NNN-22a, Vent from NNN C-EO3240

- 122 Combust the emissions are routed to the Plant Flare System that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]
123 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]
Which Months: All Year Statistical Basis: None specified
124 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]
125 Flare is used as a control device. Compliance with all the monitoring, recordkeeping, and reporting requirements of NSPS, 40 CFR 60, Subpart NNN is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 60.18, 40 CFR 64]

EQT239 NNN-22b, Vent from NNN C-EO3240

- 126 The vent stream shall be introduced into the flame zone when routed to a boiler (F-U205/U202) or combust the stream in the Plant Flare System (as backup) that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(a), 40 CFR 60.662(b)]
127 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]
Which Months: All Year Statistical Basis: None specified
128 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]
129 All the applicable requirements of NSPS, 40 CFR 60, Subpart NNN as stated for this emission point is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 64]

EQT240 NNN-22c, Vent from NNN C-EO3240

- 130 Combust the emissions are routed to the Plant Flare System that meets the requirements of 40 CFR 60.18. Subpart NNN. [40 CFR 60.662(b)]

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT240 NNN-22c, Vent from NNN C-EO3240

- 131 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995 Subpart NNN. [40 CFR 60.663(b)(2)]

Which Months: All Year Statistical Basis: None specified

- 132 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b) as approved by U.S. EPA on April 6, 1995. Subpart NNN. [40 CFR 60.663(b)(2)]

- 133 Flare is used as a control device. Compliance with all the monitoring, recordkeeping, and reporting requirements of NSPS, 40 CFR 60, Subpart NNN is considered compliance with all the applicable requirements of Compliance Assurance Monitoring (CAM). [40 CFR 60.18, 40 CFR 64]

EQT241 NNN-22d, Vent from NNN C-EO3240

- 134 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 52.660(c)(4)]

Which Months: All Year Statistical Basis: None specified

- 135 Maintain a TRE inceex value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]

- 136 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]

- 137 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]

- 138 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]

EQT242 NNN-23, Vent from NNN C-EG3110

- 139 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]

Which Months: All Year Statistical Basis: None specified

- 140 Maintain a TRE inceex value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]

- 141 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]

- 142 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]

- 143 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]

EQT243 NNN-24, Vent from NNN C-EG3140

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

EQT243 NNN-24, Vent from NNN C-EG3140

- 144 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
- Which Months: All Year Statistical Basis: None specified
- 145 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 146 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 147 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 148 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]

EQT244 NNN-25, Vent from NNN C-EG3150

- 149 TRE index value > 8 index value is exempt from all provisions of this subpart except for 40 CFR 60.662, 664(d), (e), and (f); and 60.665(h) and (l). Subpart NNN. [40 CFR 60.660(c)(4)]
- Which Months: All Year Statistical Basis: None specified
- 150 Maintain a TRE index value greater than 1.0 without use of VOC emission control devices. Subpart NNN. [40 CFR 60.662(c)]
- 151 Use all applicable test methods in Appendix A of New Source Performance Standards (NSPS) and the requirements in 40 CFR 60.664(f) for determining the process vent stream TRE index value to comply with the requirements of 40 CFR 60.662(c). [40 CFR 60.664(e), 40 CFR 60.664(f)]
- 152 Shall keep up-to-date, readily accessible records of: (1) any changes in production capacity, feedstock type, or catalysts type, or of any replacement, removal or addition of recovery equipment or a distillation unit; and (2) any recalculation of the TRE index value performed pursuant to 40 CFR 60.664(f). Subpart NNN. [40 CFR 60.665(h), 40 CFR 60.665(l)(7)]
- 153 Submit report: Due semiannually. Submit initial report within 6 months after the initial start-up date. Include the information outlined in 40 CFR 60.665(l)(1) through (l)(7). Subpart NNN. [40 CFR 60.665(l)]

EQT245 PWW-13, Process Wastewater E-EO3105

- 154 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33.III.Chapter 51. [LAC 33.III.5109.A]
- 155 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- 156 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 157 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 158 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

EQT246 PWW-14, Process Wastewater V-EO3221

SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20030002

Permit Number: 2185-V2

Air - Title V Regular Permit Renewal

PWW-14, Process Wastewater V-EO3221

- 159 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]
160 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii).
Subpart G. [40 CFR 63.132(a)(1)]
- 161 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii).
Subpart G. [40 CFR 63.132(b)(1)]
- 162 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 163 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

EQT246 PWW-15, Process Wastewater E-EO3226

- 164 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]
165 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii).
Subpart G. [40 CFR 63.132(a)(1)]
- 166 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii).
Subpart G. [40 CFR 63.132(b)(1)]
- 167 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 168 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

EQT247 PWW-16, Process Wastewater V-EO3261

- 169 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]
170 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii).
Subpart G. [40 CFR 63.132(a)(1)]
- 171 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii).
Subpart G. [40 CFR 63.132(b)(1)]
- 172 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 173 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

EQT249 PWW-17, Process Wastewater V-EO3151

- 174 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51.
[LAC 33:III.5109.A]

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PWW-17, Process Wastewater V-EO3151

- 175 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- 176 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 177 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 178 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

PWW-18, Process Wastewater V-EO3251

- 179 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III,5109.A]
- 180 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- 181 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 182 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 183 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

PWW-19, Process Wastewater V-EO3304

- 184 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III,5109.A]
- 185 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]
- 186 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 187 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 188 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

PWW-20, Process Wastewater V-EO3321

- 189 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart G is considered compliance with all the applicable requirements of LAC 33:III, Chapter 51. [LAC 33:III,5109.A]
- 190 Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. [40 CFR 63.132(a)(1)]

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EQT252 PWW-20, Process Wastewater V-EO3321

- 191 Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 192 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. [40 CFR 63.132(c)]
- 193 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.147]

EQT253 RRR-01, Vent from RRR EO3

- 194 Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart RRR. [40 CFR 60.702(a)]
Which Months: All Year Statistical Basis: None specified
- 195 Combust the emissions in a flare that meets the requirements of 40 CFR 60.18. Subpart RRR. [40 CFR 60.702(b)]
- 196 TRE index value > 1 index value without use of VOC emission control device. Subpart RRR. [40 CFR 60.702(c)]
Which Months: All Year Statistical Basis: None specified
- 197 Flow monitored by flow indicator hourly. Monitor the bypass line from the vent stream flow to the flare. Install the flow indicator in the vent stream at the entrance to any bypass line that could divert the vent stream. Shall comply with the requirements of 40 CFR 60.703(b). Subpart RRR. [40 CFR 60.703]
Which Months: All Year Statistical Basis: None specified
- 198 Flow recordkeeping by electronic or hard copy hourly. Record the bypass of the vent stream flow to the flare at least once every 15 minutes for each affected facility. Shall comply with the requirements of 40 CFR 60.703(b). Subpart RRR. [40 CFR 60.703]
199 For a boiler or process heater or a flare submit a report containing the information in 40 CFR 60.705(b)(2) and (3). [40 CFR 60.705(b)(2), 40 CFR 60.705(b)(3)]
- 200 Performance Test Data recordkeeping by electronic or hard copy continuously. Maintain up-to-date, readily accessible records of the required compliance information listed in 40 CFR 60.705(b) through (l) measured during each performance test required under 40 CFR 60.8. Submit the same specified data in the reports of all subsequently required performance tests where either the emission control efficiency of a control device, outlet concentration of TOC, or the TRE index value of a vent stream from a recovery system is determined. Subpart RRR. [40 CFR 60.705(b)]
201 All 3-hour periods of operation during which the average temperature was more than 28 degrees centigrade below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.702(a) was determined for boilers or process heaters with a design heat input capacity of less than 150 MM BTU/hr where the vent is introduced with the combustion air or as a secondary fuel. Subpart RRR. [40 CFR 60.705(c)(3)]
202 Shall comply with all the applicable requirements of NSPS, Subpart RRR, 40 CFR 60.705(d) and (e). [40 CFR 60.705(d), 40 CFR 60.705(e)]

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- 203 Compliance with all the applicable requirements of NESHAP, 40 CFR 63 Subpart H, and NSPS, 40 CFR 60 Subpart VV is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51 for equipment in OHAP and Non-OHAP service, respectively. [LAC 33:III.5109.A]
- 204 Non-OHAP: Demonstrate compliance with the requirements of 40 CFR 60.482-1 to 40 CFR 60.482-10 for all equipment within 180 days of initial startup. Subpart VV. [40 CFR 60.482-1(a)]
- 205 Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(1)]
Which Months: All Year Statistical Basis: None specified

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- 206 Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 207 Non-OHAP: Pumps in light liquid service (no dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(c)]
- 208 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Operate the seal system with the barrier fluid at a pressure that is greater than the pump stuffing box pressure; OR equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; OR equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-2(d)(1)]
- 209 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-2(d)(2)]
- 210 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(3)]
- 211 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(4)]
Which Months: All Year Statistical Basis: None specified
- 212 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily, or equip the sensor with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in 40 CFR 60.482-2(d)(5)(i), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(5)(i)]
Which Months: All Year Statistical Basis: None specified
- 213 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(5)(ii)]
- 214 Non-OHAP: Pumps in light liquid service (dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(d)(6)]
- 215 Non-OHAP: Pumps in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-2(e)(3)]
Which Months: All Year Statistical Basis: None specified
- 216 Non-OHAP: Pumps in light liquid service (unsafe-to-monitor): Demonstrate that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-2(a). Subpart VV. [40 CFR 60.482-2(g)(1)]
- 217 Non-OHAP: Pumps in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe to monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 60.482-2(c) if a leak is detected. Subpart VV. [40 CFR 60.482-2(g)(2)]
Which Months: All Year Statistical Basis: None specified
- 218 Non-OHAP: Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Subpart VV. [40 CFR 60.482-2(h)]
Which Months: All Year Statistical Basis: None specified

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- 219 Non-OHAP, Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as specified in 40 CFR 60.482-1(c) and 40 CFR 60.482-3(h) and (i). Subpart VV. [40 CFR 60.482-3(a)]
- 220 Non-OHAP, Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-3(b)]
- 221 Non-OHAP, Compressors: Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-3(c)]
- 222 Non-OHAP, Compressors: Equip each barrier fluid system as described in 40 CFR 60.482-3(a) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(d)]
- 223 Non-OHAP: Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 60.482-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-3(g). Subpart VV. [40 CFR 60.482-3(e)(1)]
Which Months: All Year Statistical Basis: None specified
- 224 Non-OHAP, Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(e)(2)]
- 225 Non-OHAP, Compressors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-3(g)]
- 226 Non-OHAP: Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-3(i)(2)]
Which Months: All Year Statistical Basis: None specified
- 227 Non-OHAP: Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as determined by the methods specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(a)]
Which Months: All Year Statistical Basis: None specified
- 228 Non-OHAP: Pressure relief devices in gas/vapor service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(b)(1)]
- 229 Non-OHAP: Pressure relief devices in gas/vapor service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release, to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as specified in 40 CFR 60.485(c). Subpart VV.
[40 CFR 60.482-4(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 230 Non-OHAP: Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(d)(2)]
- 231 Sampling connection systems to Non-OHAP: Equip with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1(c). Operate the system as specified in 40 CFR 60.482-5(a) and (b). Subpart VV. [40 CFR 60.482-5]
- 232 Non-OHAP, Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 60.482-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve or line equipped with a second valve such that the valve on the process fluid end is closed before the second valve is closed. The bleed valve or line may remain open during operations requiring venting the line between the block valves of a double block-and-bleed system, but shall comply with 40 CFR 60.482-6(a) at all other times. Subpart VV. [40 CFR 60.482-6]

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- 233 Non-OHAP: Valves in gas/vapor service and in light liquid service: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-7(d)]
- 234 Non-OHAP: Valves in gas/vapor service and in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-7(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 235 Non-OHAP: Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7(a). Subpart VV. [40 CFR 60.482-7(g)(1)]
- 236 Non-OHAP: Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Adhere to a written plan that requires monitoring of the valve as frequently as practicable during safe to monitor times. Subpart VV. [40 CFR 60.482-7(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- 237 Non-OHAP: Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Subpart VV. [40 CFR 60.482-7(h)(1)]
- 238 Non-OHAP: Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Follow a written plan that requires monitoring of the valve at least once per calendar year. Subpart VV. [40 CFR 60.482-7(h)(3)]
- Which Months: All Year Statistical Basis: None specified
- 239 Non-OHAP: Valves in gas/vapor service and in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). Permittee may elect to comply with the alternate standards in 40 CFR 60.482-7(c), 60.483-1, or 60.483-2. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-7(d). Subpart VV. [40 CFR 60.482-7]
- Which Months: All Year Statistical Basis: None specified
- 240 Non-OHAP: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) by the method specified in 40 CFR 60.485(b), if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 60.482-8(b) through (d); OR eliminate the indication of a leak. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-8(c). Subpart VV. [40 CFR 60.482-8(a)]
- Which Months: All Year Statistical Basis: None specified
- 241 Non-OHAP: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-8(c)]
- 242 Non-OHAP: In conducting the performance tests required in 40 CFR 60.8, use as reference methods and procedures the test methods in Appendix A of Part 60 or other methods and procedures as specified in 40 CFR 60.485, except as provided in 40 CFR 60.8(b). Conduct any other required demonstrations using the test methods and procedures outlined. Subpart VV. [40 CFR 60.485]
- 243 Non-OHAP: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record and maintain records as specified 40 CFR 60.486(a) through (k). Subpart VV. [40 CFR 60.486]
- 244 Non-OHAP, Submit notification: Due 90 days before implementing either of the alternative standards contained in 40 CFR 60.483-1 or 60.483-2. Notify DEQ of the provision selected. Subpart VV. [40 CFR 60.487(d)]
- 245 Non-OHAP, Submit performance test results: Due in accordance with 40 CFR 60.8 of the General Provisions. Subpart VV. [40 CFR 60.487(e)]
- 246 Non-OHAP, Submit semiannual report: Due semiannually to DEQ beginning six months after the initial startup date. Submit the information specified in 40 CFR 60.487(b) and (c). Subpart VV. [40 CFR 60.487]

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- 247 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 248 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 249 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- Which Months: All Year Statistical Basis: None specified
- 250 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- 251 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 252 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 253 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 254 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 255 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 256 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 257 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- Which Months: All Year Statistical Basis: None specified
- 258 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(ii)]

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- 259 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 260 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 261 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)]
- Which Months: All Year Statistical Basis: None specified
- 262 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 263 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 264 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 265 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 266 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 267 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 268 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 269 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 270 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- 271 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- Which Months: All Year Statistical Basis: None specified

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- 272 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c).
Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- 273 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 274 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 275 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 276 Sampling connection systems: Equip with a closed purge, closed loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 277 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 278 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 279 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 280 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b), or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- Which Months: All Year Statistical Basis: None specified
- 281 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f).
- Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- 282 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 283 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 284 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]

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- 285 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 286 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- 287 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 288 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- Which Months: All Year Statistical Basis: None specified
- 289 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- 290 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 291 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 292 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 293 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 294 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
- Which Months: All Year Statistical Basis: None specified

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- 295 Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 296 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 297 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
- Which Months: All Year Statistical Basis: None specified
- 298 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]
- 299 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 300 Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 301 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 302 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- Which Months: All Year Statistical Basis: None specified
- 303 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 304 Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
- Which Months: All Year Statistical Basis: None specified
- 305 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 306 Agitators in gas/vapor service or liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- Which Months: All Year Statistical Basis: None specified
- 307 Agitators in gas/vapor service or liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
- Which Months: All Year Statistical Basis: None specified

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- 308 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 309 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- 310 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 311 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- 312 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- Which Months: All Year Statistical Basis: None specified
- 313 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- 314 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(ii)]
- 315 Agitators in gas/vapor service or light liquid service (unmanned plant site - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 316 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
- Which Months: All Year Statistical Basis: None specified
- 317 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 318 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- Which Months: All Year Statistical Basis: None specified

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319 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]

320 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified
321 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified
322 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]

Which Months: All Year Statistical Basis: None specified
323 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified
324 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified
325 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]

Which Months: All Year Statistical Basis: None specified
326 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]

Which Months: All Year Statistical Basis: None specified
327 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]

Which Months: All Year Statistical Basis: None specified
328 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]

329 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]

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330 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]

Which Months: All Year Statistical Basis: None specified

331 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]

332 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c), and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]

333 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]

334 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]

335 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]

336 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

337 Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but if need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]

338 Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

339 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]

340 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

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341 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

342 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

343 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

344 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

345 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

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- 346 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 347 Conduct a three-month intensive study of solvent types and usage. [LAC 33:III.2151.C.1]
- 348 Utilize accounting on a unit operation system. [LAC 33:III.2151.C.2]
- 349 Compare the cleaning effectiveness of solvents and other cleaners using ASTM Method D-4828, "Standard Test Method for Practical Washability of Organic Coatings" [LAC 33:III.2151.D]
- 350 VOC, Total recordkeeping by electronic or hard copy monthly. Calculate and record the net VOC emissions from usage of solvents. [LAC 33:III.2151.E]
- 351 Submit notification: Due annually. Report the net VOC emissions from solvent usage. Also report solvent reduction progress, based on product output or other suitable basis approved by DEQ, or alternate, report the controls and/or work practices deemed to be MACT that have been adopted to reduce VOC emissions from solvent cleanup operations. [LAC 33:III.2151.E]
- 352 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 353 Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ. [LAC 33:III.2201.D.9]
- 354 Establish an emission factor for each applicable affected point source such that if each affected point sources was operated at its averaging capacity, the cumulative emission factor in pounds NO_x/MMBtu from all point sources in the averaging group would not exceed the facility-wide emission factor. Use the equations in LAC 33:III.2201.E.a to calculate the cumulative emission rate and the facility-wide emission factor. [LAC 33:III.2201.E.1.a]
- 355 Include in the submitted plan a description of the actions that will be taken if any under-controlled unit is operated at more than 10 percent above its averaging capacity. [LAC 33:III.2201.E.1.d]
- 356 Equipment/operational data recordkeeping by electronic or hard copy continuously. Carry out recordkeeping that includes, but is not limited to, a record of the data on which the determination of each point source's hourly, daily, or 30-day, as appropriate, compliance with the facility-wide averaging plan is based. [LAC 33:III.2201.E.1.i]
- 357 Comply with the facility-wide averaging plan as approved by DEQ. [LAC 33:III.2201.E.1]
- 358 Submit a request for approval to use a facility-wide averaging plan, that includes the details of the plan, to DEQ either separately or with the permit application or in the optional compliance plan described in LAC 33:III.2201.F.7. [LAC 33:III.2201.E.1]
- 359 Perform NO_x emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.7. Test results must demonstrate that actual NO_x emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO₂, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds. [LAC 33:III.2201.G.2]
- 360 Submit report: Due annually, by the 1st of July. Submit ammonia emissions resulting from the operation of a NO_x control equipment system in accordance with LAC 33:III.5107.A. [LAC 33:III.2201.I.5]
- 361 Modify and/or install and bring into normal operation NO_x control equipment and/or NO_x monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.1]
- 362 Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NO_x reduction controls or a NO_x monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.2]
- 363 Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202. [LAC 33:III.2201.J.2]

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- 364 Comply with applicable emission factors in Table B-1 of LAC33:III.2202.B as expeditiously as possible, but not later than two years after determination and notification by the EPA in accordance with LAC33:III.2202.A. [LAC 33:III.2202.C.1]
- 365 Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than 30 months after determination and notification by the EPA in accordance with LAC33:III.2202.A. [LAC 33:III.2202.C.2]
- 366 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 367 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 368 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 369 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene. (State Only). [LAC 33:III.501.C.6]
- 370 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 371 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 372 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard [LAC 33:III.5105.A.3]
- 373 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 374 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 375 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 376 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 377 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]

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- 378 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]
- 379 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.i through viii. [LAC 33:III.5107.B.4]
- 380 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 381 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 382 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B.]
- 383 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 384 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 385 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:I.3931.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 386 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 387 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 388 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 389 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 390 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 391 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 392 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 393 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 394 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 395 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]

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- 396 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 397 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 398 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 399 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 400 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 401 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 402 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 403 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 404 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 405 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 406 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 407 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 408 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 409 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 410 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 411 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 412 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 413 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]

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- 414 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 415 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 416 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 417 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
- 418 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]
- 419 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]
- 420 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 421 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 422 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]
- 423 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 424 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]
- 425 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 426 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 427 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 428 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 429 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 430 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(B) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

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- 431 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 432 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.5]